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APPLICATION N	O. I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,008	•	12/12/2003	Qiong Cheng	CL2028USNA	2503
23906	7590	05/25/2006		EXAM	INER
21201		NEMOURS AND C	SAIDHA, T	SAIDHA, TEKCHAND	
		ECORDS CENTER AZA 25/1128	ART UNIT	PAPER NUMBER	
4417 LAN	NCASTER I	PIKE	1652		
WILMINGTON, DE 19805				DATE MAILED: 05/25/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
	Office Action Commons	10/735,008	CHENG ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Tekchand Saidha	1652				
Period fo	The MAILING DATE of this communication apports. Property	pears on the cover sheet with the c	orrespondence address				
WH!C - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DISTRIBUTION OF THE MAILING DEPTH OF	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on 20 D	ecember 2005					
· —		action is non-final.					
,—	_						
,_	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims	,					
· · _	Claim(s) 1-16 is/are pending in the application						
-	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
	Claim(s) is/are allowed. Claim(s) is/are rejected.						
	Claim(s) is/are objected to.						
· —	Claim(s) <u>1-16</u> are subject to restriction and/or	election requirement					
, —	, ,	oloottori requirement.					
Applicati	on Papers						
9)☐ The specification is objected to by the Examiner.							
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)[11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119						
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.						
	 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
		or and defining depice not receive	. .				
Attachma-	Ne)						
Attachment	e of References Cited (PTO-892)	4) Interview Summary	(DTO 412)				
	e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		atent Application (PTO-152)				

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DETAILED ACTION

1. Restriction/ Election

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Group 1, claim(s) 1-10, 14 & 16 (all in part), drawn to a carotenoid overproducing microorganism comprising a disrupted deaD gene, and a method of producing a carotenoid, classified in class 435, subclass 67.
- Group 2, claim(s) 1-10, 14 & 16 (all in part), drawn to a carotenoid overproducing microorganism comprising a disrupted mreC gene, and a method of producing a carotenoid, classified in class 435, subclass 67.
- Group 3, claim(s) 1-10, 14 & 16 (all in part), drawn to a carotenoid overproducing microorganism comprising a disrupted yhfE gene, and a method of producing a carotenoid, classified in class 435, subclass 67.
- Group 4, claim(s) 11-13, 15-16 (all in part), drawn to a carotenoid overproducing microorganism comprising a mutation in the *thrS* gene as set forth in SEQ ID NO: 35, and a method of producing a carotenoid, classified in class 435, subclass 67.
- Group 5, claim(s) 11-13, 15-16 (all in part), drawn to a carotenoid overproducing microorganism comprising a mutation in the *rpsA* gene as set forth in SEQ ID NO: 37, and a method of producing a carotenoid, classified in class 435, subclass 67.
- Group 6, claim(s) 11-13, 15-16 (all in part), drawn to a carotenoid overproducing microorganism comprising a mutation in the rpoC gene as set forth in SEQ ID NO: 38, and a method of producing a carotenoid, classified in class 435, subclass 67.
- Group 7, claim(s) 11-13, 15-16 (all in part), drawn to a carotenoid overproducing microorganism comprising a mutation in the *yjeR* gene as set forth in SEQ ID NO: 39, and a method of producing a carotenoid, classified in class 435, subclass 67.
- Group 8, claim(s) 11-13, 15-16 (all in part), drawn to a carotenoid overproducing microorganism comprising a mutation in

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the *rhoL* gene as set forth in SEQ ID NO: 41, and a method of producing a carotenoid, classified in class 435, subclass 67.

- 2. Each of the Invention of Groups 1-8 employ a distinct gene for expression in a host cell for producing a carotenoid. Therefore, each of the Inventions of Groups 1-8 are patentably distinct from each other.
- 3. Applicants are advised that the reply to this requirement MUST include an election of the invention to be examined, even though the requirement be traversed (37 CFR 1.143).
- 4. Applicants are reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tekchand Saidha whose telephone number is (571) 272 0940. The examiner can normally be reached on 8.30 am 5.00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapu Achutamurthy can be reached on (571) 272 0928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tekchand Saidha

Primary Examiner, Art Unit 1652

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May 19, 2006